

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent Applications and Patents Assigned to Video Enhancement Solutions LLC

Commissioner for Patents  
P.O. BOX 1450  
Alexandria, VA 22313-1450

**REVOCATION OF POWER OF ATTORNEY WITH NEW POWER OF  
ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS**

Sir:

I hereby revoke all previous powers of attorney given in the patent applications and patents identified in Appendix A. I hereby appoint the practitioners associated with the Customer Number **60803** including Daniel H. Sherr having USPTO Registration Number 46,425. Please change the correspondence address for the patent applications and patents identified in Appendix A to the address associated with Customer Number **60803**.

By: David White

Title: Senior Vice President of Video Enhancement Solutions LLC

  
\_\_\_\_\_  
Signature

10/1/09  
\_\_\_\_\_  
Date

Address: Video Enhancement Solutions LLC.  
500 Newport Center Drive  
7th Floor  
Newport Beach, CA 92660

Telephone Number: 1-949-480-8300

**EXHIBIT A**

**THE PATENTS**

<b>Patent Application Number</b>	<b>Patent Number</b>	<b>TITLE</b>
US09010446	US6028967	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US09506728	US7239755	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619893	US7305142	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619913	US7277593	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619926	US7233706	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619938	US7262886	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11626561	US7283681	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11626570	US7305143	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11626583	US7283682	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11673260	US7289682	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11770260	US7391921	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

Patent Application Number	Patent Number	TITLE
US11770324	US7359569	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835174	US7394945	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835195	US7362913	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835209	US7362914	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835230	US7391922	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835243	US7359570	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11846629	US7437015	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11846685	US7403667	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874976	US7379616	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874979	US7391923	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874983	US7406209	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874993	US7391924	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

Patent Application Number	Patent Number	TITLE
US11875020	US7379617	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875046	US7382930	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875056	US7400780	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875068	US7397965	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875082	US7397966	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875093	US7397967	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105305		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105307		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105312		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105315		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105317	US7496239	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105322	US7492959	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

Patent Application Number	Patent Number	TITLE
US12105324		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105332	US7463786	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105342	US7454082	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105347		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105362	US7492961	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105370	US7499598	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US09065577	US6240135	METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11834312		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11834347		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11851517		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11851529		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11851551		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE

Patent Application Number	Patent Number	TITLE
US09224901	US6487318	METHOD OF RELOCATING WAVELET PACKET COEFFICIENT
US12573531		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Applications and Patents Assigned to Video Enhancement Solutions LLC

Commissioner for Patents  
P.O. BOX 1450  
Alexandria, VA 22313-1450


## STATEMENT UNDER 37 CFR 3.73(B)

Sir:

I, David White, am Senior Vice President at Video Enhancement Solutions LLC and am authorized to act on behalf of the assignee Video Enhancement Solutions LLC of the patents listed in Appendix A. In accordance with 37 CFR 3.73(b), I state that Video Enhancement Solutions LLC is the Assignee of Record of the entire right, title and interest of all of the patents and patent applications listed above by virtue of the assignment(s) of which copies are attached and have been recorded at the United States Patent and Trademark Office.

By: David White

Title: Senior Vice President of Video Enhancement Solutions LLC

  
\_\_\_\_\_  
Signature

  
\_\_\_\_\_  
Date

Address: Video Enhancement Solutions LLC.  
500 Newport Center Drive  
7th Floor  
Newport Beach, CA 92660

Telephone Number: 1-949-480-8300

**EXHIBIT A**

**THE PATENTS**

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05-07-1998

FORM PTO-1596  
1-31-92U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

DOCKET NO.: LGS/K-041

100705102

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of conveying party(ies): Hyun Mun KIM  Additional name(s) of conveying party(ies) attached? <u>MAD 4.24.98</u> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: <u>LG SEMICON CO., LTD.</u> Internal Address:  Street Address: <u>1, Hyangjeong-dong, Heungduk-ku</u> City: <u>Cheongju-si</u> State/Country: <u>Chungcheongbuk-do, Korea</u> ZIP: <u>360-480</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <u>March 20, 1998</u>						
4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: <u>March 20, 1998</u> A. Patent Application No(s): Filed: <u>09-065577</u> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>FLESHNER &amp; KIM</u> Internal Address:  Street Address: <u>P. O. Box 221200</u>  City: <u>Chantilly</u> State: <u>VA</u> ZIP: <u>20153-1200</u>		6. Total number of applications and patents involved:  7. Total fee (37 C.F.R. 3.41)..... <u>\$40.00</u> <u>E</u> <input checked="" type="checkbox"/> Enclosed (Check No. <u>5765</u> ) <input type="checkbox"/> Authorized to be charged to deposit account  8. Deposit account number:  <u>16-0607</u>				
DO NOT USE THIS SPACE						
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  <table border="0" style="width: 100%;"> <tr> <td style="width: 40%;"> <u>Carl R. Wesolowski - Registration No. 40,372</u>            Name and Registration No. of Person Signing         </td> <td style="width: 30%; text-align: center;">             Signature         </td> <td style="width: 30%; text-align: right;"> <u>April 24, 1998</u>            Date         </td> </tr> </table> <p style="text-align: right;">Total number of pages including cover sheet: <u>2</u></p>				<u>Carl R. Wesolowski - Registration No. 40,372</u> Name and Registration No. of Person Signing	 Signature	<u>April 24, 1998</u> Date
<u>Carl R. Wesolowski - Registration No. 40,372</u> Name and Registration No. of Person Signing	 Signature	<u>April 24, 1998</u> Date				

CMB No. 0851-0011 (exp. 4/94)

DYK/CRW:ksw

05/06/1998 SSMITH 00000229 09065577

01 FC:581

40.00 0P

PATENT  
REEL: 9143 FRAME: 0974

Docket No.: LGS/K-041

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) Hyun Mun KIM (4) \_\_\_\_\_  
(2) \_\_\_\_\_ (5) \_\_\_\_\_  
(3) \_\_\_\_\_ (6) \_\_\_\_\_

who have made a certain new and useful invention, hereby sell, assign and transfer unto

LG Semicon Co., Ltd.

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE

(a) for which an application for United States Letters Patent was filed on \_\_\_\_\_ and identified by United States Serial No. \_\_\_\_\_ or

(b) for which an application for United States Letters Patent was executed on March 20, 1998

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

1) Hyun Mun KIM  
Name: Hyun Mun KIM

March 20, 1998

2) \_\_\_\_\_  
Name: \_\_\_\_\_

3) \_\_\_\_\_  
Name: \_\_\_\_\_

4) \_\_\_\_\_  
Name: \_\_\_\_\_

5) \_\_\_\_\_  
Name: \_\_\_\_\_

RECORDED: 04/24/1998

PATENT  
REEL: 9143 FRAME: 0975



04-12-1999



101005841

FORM PTO-1596  
1-31-92

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

DOCKET NO.: LGS/K-041

PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

## 1. Name of conveying party(ies):

1) Jong Beom RA, 2) Sung Deuk KIM, and 3) Young Su LEE

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: 1) and 2) March 3, 1999; 3) February 25, 1999

## 2. Name and address of receiving party(ies):

Name: LG SEMICON CO., LTD.

Internal Address:

Street Address: 1, Hwangjeong-dong, Heungdeuk-ku

City: Cheongju-si

State/Country: Chungcheongbuk-do, Korea ZIP: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If the document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No(s): 09/065,577  
Filed: April 24, 1998

B. Patent No(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: FLESHNER &amp; KIM

Internal Address:

Street Address: P. O. Box 221200

City: Chantilly State: VA ZIP: 20153-1200

## 6. Total number of applications and patents involved:

7. Total fee (37 C.F.R. 3.41)..... \$40.00

☒ Enclosed (Check No. 6962)☐ Authorized to be charged to deposit account

## 8. Deposit account number:

16-0607

DO NOT USE THIS SPACE

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Daniel Y.J. Kim, Reg. No. 36,186

Name and Registration No. of Person Signing

Signature

March 17, 1999

Date

Total number of pages including cover sheet: 2

CMB No. 0851-0011 (exp. 4/94)

PATENT  
REEL: 9867 FRAME: 0186

## ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) Jong Beom RA

(4) \_\_\_\_\_

(2) Sung Deuk KIM

(5) \_\_\_\_\_

(3) Young Su LEE

(6) \_\_\_\_\_

who have made a certain new and useful invention, hereby sell, assign and transfer unto

LG Semicon Co., Ltd.

1, Hyangisong-dong, Heungduk-ku

Cheongju-si, Chungcheongbuk-do, Korea

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE

(a) for which an application for United States Letters Patent was filed on April 24, 1998, and identified by United States Serial No. 09/065,577; or

(b) for which an application for United States Letters Patent was executed on March 3, 1999, February 25, 1999

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:  
INVENTORS

DATE SIGNED

1) Jong Beom RA  
Name: Jong Beom RA

3/3/99

2) Sung Deuk KIM  
Name: Sung Deuk KIM

3/3/99

3) Young Su LEE  
Name: Young Su LEE

2/25/99

4) \_\_\_\_\_  
Name: \_\_\_\_\_

\_\_\_\_\_

5) \_\_\_\_\_  
Name: \_\_\_\_\_

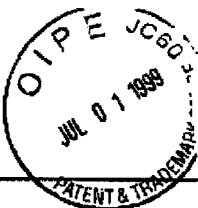
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6) \_\_\_\_\_  
Name: \_\_\_\_\_

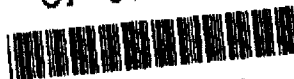
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FORM PTO-1596  
1-31-92



07-06-1999

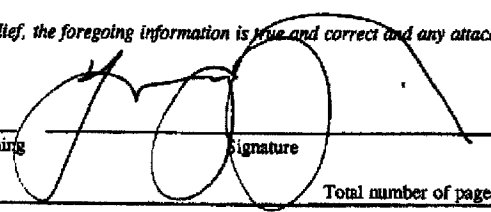


101085644  
COVER SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

DOCKET NO.: LGS/K-027; LGS/K-028; LGS/K-029; LGS/K-041; LGS/K-042  
PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

<b>1. Name of conveying party(ies):</b> LG Semicon Co., Ltd.  <b>Additional name(s) of conveying party(ies) attached?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<b>2. Name and address of receiving party(ies):</b>  <b>Name:</b> <u>LG Electronics Inc.</u> <b>Internal Address:</b>  <b>Street Address:</b> <u>20, Yoido-dong, Youngdangpo-ku</u> <b>City:</b> <u>Seoul</u> <b>State/Country:</b> <u>KOREA</u> <b>ZIP:</b> <u>157-271</u>  <b>Additional name(s) &amp; address(es) attached?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>3. Nature of conveyance:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other  <b>Execution Date:</b> <u>June 7, 1999</u>			
<b>4. Application number(s) or patent number(s):</b>  If the document is being filed together with a new application, the execution date of the application is: _____ <b>A. Patent Application No(s):</b> 1) 09/065,623; 2) 09/065,575; 3) 09/010,446; 4) 09/065,577 and 5) 09/065,578 <b>Filed:</b> 1), 2), 4) & 5) April 24, 1998; 3) January 22, 1998 <b>B. Patent No(s)</b>  <b>Additional numbers attached?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>  <b>Name:</b> <u>FLESHNER &amp; KIM</u> <b>Internal Address:</b>  <b>Street Address:</b> <u>P. O. Box 221200</u>  <b>City:</b> <u>Chantilly</u> <b>State:</b> <u>VA</u> <b>ZIP:</b> <u>20153-1200</u>		<b>6. Total number of applications and patents involved:</b> <u>5</u>  <b>7. Total fee (37 C.F.R. 3.41):</b> ..... <u>\$200.00</u>  <input checked="" type="checkbox"/> Enclosed (Check No. 7332) <input type="checkbox"/> Authorized to be charged to deposit account  <b>8. Deposit account number:</b>  <u>16-0607</u>	
DO NOT USE THIS SPACE			
<b>9. Statement and signature.</b> <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  <div style="display: flex; justify-content: space-between;"><div><u>Daniel Y.J. Kim, Reg. No. 36,186</u> Name and Registration No. of Person Signing</div><div style="text-align: center;"> Signature</div><div><u>July 1, 1999</u> Date</div></div> <div style="display: flex; justify-content: space-between;"><div>CMB No. 0851-0011 (exp. 4/94)</div><div>Total number of pages comprising cover sheet: <u>3</u></div></div>			

07/02/1999 INGVEN 00000170 09065623

31 FC:581

200.00 GP

PATENT  
REEL: 010060 FRAME: 0771

## ASSIGNMENT

Whereas, LG Semicon Co., Ltd., a corporation duly organized and existing under the laws of the Republic of Korea and having its principal place of business located at 891 Daechi-dong, Kangnam-ku, Seoul 135-280, Korea (hereinafter, referred to as Assignor), hereby warrants that it assigns, by mutual agreement, all of the right, title and interest in and to the patent applications identified in Appendix 1 to LG Electronics Inc., a corporation duly organized and existing under the laws of the Republic of Korea and having its principal place of business located at 20, Yoido-dong, Youngdungpo-ku, Seoul 150-271, Korea (hereinafter, referred to as Assignee).

Now, therefore, in consideration of the sum of One Dollar and other good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, Assignor does hereby assign unto Assignee, its successors, assigns said all of the right, title and interest in and to the patent applications identified in Appendix 1.

Assignor hereby covenants that it has full right to convey the interest assigned by this Assignment, and Assignor has not executed and will not execute any agreement in conflict with this Assignment.

In testimony whereof, Assignor, by its below-named duly empowered and authorized representative executes this Assignment this 7 day of June, 1999.

ASSIGNOR: LG Semicon Co., Ltd.

By: 

Name: Jeong-Hwan LEE

Title: Vice President

Intellectual Property Dept.

PATENT

REEL: 010060 FRAME: 0772

# Appendix 1

NO.	US appln. NO.	filing date
1	09/065,623	98-04-24
2	09/065,575	98-04-24
3	09/010,446	98-01-22
4	09/065,577	98-04-24
5	09/065,578	98-04-24



**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



JULY 31, 2008

\*500608063A\*

PTAS  
TECHNOLOGY, PATENTS & LICENSING, INC.  
2003 S. EASTON ROAD  
SUITE 208  
DOYLESTOWN, PA 18901

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 07/31/2008

REEL/FRAME: 021316/0246  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: LG-ANPA ASSIGN

ASSIGNOR:

LG ELECTRONICS, INC.

DOC DATE: 06/12/2008

ASSIGNEE:

ANPA INC.  
5TH FLOOR, BOSUNG BLDG.  
DAECHI-DONG 1005-8, GANGNAM-GU  
SEOUL, DEM REP OF KOREA 135-280

SERIAL NUMBER: 09010446

FILING DATE: 01/22/1998

PATENT NUMBER: 6028967

ISSUE DATE: 02/22/2000

TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 09065577

FILING DATE: 04/24/1998

PATENT NUMBER: 6240135

ISSUE DATE: 05/29/2001

TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE

021316/0246 PAGE 2

SERIAL NUMBER: 09224901 FILING DATE: 12/31/1998  
PATENT NUMBER: 6487318 ISSUE DATE: 11/26/2002  
TITLE: METHOD OF RELOCATING WAVELET PACKET COEFFICIENT

SERIAL NUMBER: 07649779 FILING DATE: 02/01/1991  
PATENT NUMBER: 5323316 ISSUE DATE: 06/21/1994  
TITLE: MORPHOLOGICAL ANALYZER

SERIAL NUMBER: 11619926 FILING DATE: 01/04/2007  
PATENT NUMBER: 7233706 ISSUE DATE: 06/19/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 09506728 FILING DATE: 02/18/2000  
PATENT NUMBER: 7239755 ISSUE DATE: 07/03/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11619938 FILING DATE: 01/04/2007  
PATENT NUMBER: 7262886 ISSUE DATE: 08/28/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11619913 FILING DATE: 01/04/2007  
PATENT NUMBER: 7277593 ISSUE DATE: 10/02/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11626561 FILING DATE: 01/24/2007  
PATENT NUMBER: 7283681 ISSUE DATE: 10/16/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11626583 FILING DATE: 01/24/2007  
PATENT NUMBER: 7283682 ISSUE DATE: 10/16/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11673260 FILING DATE: 02/09/2007  
PATENT NUMBER: 7289682 ISSUE DATE: 10/30/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11619893 FILING DATE: 01/04/2007  
PATENT NUMBER: 7305142 ISSUE DATE: 12/04/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11626570 FILING DATE: 01/24/2007  
PATENT NUMBER: 7305143 ISSUE DATE: 12/04/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT AGREEMENT

WHEREAS LG ELECTRONICS INC., having a place of business at LG Twin Towers, 20 Yeouido-dong, Yeongdeungpo-gu, Seoul, 150-721, Korea (hereinafter, "Seller") is the owner of certain United States and/or foreign patents and/or patent applications listed in Exhibit A annexed hereto (collectively referred to as the "Patents"); and

WHEREAS ANPA INC., having a place of business at 5th Fl., Bosung Bldg., Daechi-dong 1005-8, Gangnam-gu, Seoul, 135-280, Korea (hereinafter, "Purchaser") is desirous of acquiring the right, title and interest in, to and under the said Patents (and all foreign counterparts and related foreign patents).

*Now, Therefore,*

For good and valuable consideration, the receipt of which is hereby acknowledged, and subject to the existing encumbrances and retained rights of Seller, Seller does hereby sell, assign, transfer and set over to Purchaser, the Patents aforesaid, plus any and all continuations, divisionals, continuation-in-parts, reexaminations, foreign counterpart patents, and other related patent family members, and any inventions claimed in said Patent, any reissue or reissues of said Patents already granted and which may be granted, any certificates of reexamination already granted and which may be granted the same to be held and enjoyed by Purchaser for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term or terms for which said Patents are or may be granted, reissued or extended as fully and entirely as the same would have been held and enjoyed by Seller, if this assignment and sale had not been made; together with all claims for damages by reason of past, current, and future infringement and/or provisional rights under said Patents, with the right to sue for, and collect the same for its own use and behalf, and for the use and behalf of its successors, assigns or other legal representatives.

And, Seller, hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States on said inventions to Purchaser as assignee of the entire interest, and hereby covenants that Seller has full right to convey the entire interest herein assigned, and that, except as otherwise provided between the parties, Seller has not executed, and will not execute, any agreements in conflict therewith.

In Witness Whereof, Seller has caused this Patent Assignment Agreement to be executed by its duly authorized representative.

LG ELECTRONICS INC.

By: Jeong Joong, Kim

Name: JEONG JOONG KIM

Title: VICE PRESIDENT

Date: 12 JUNE 2008

**EXHIBIT A**

**ASSETS TO BE ASSIGNED FROM LGE**

<u>Patents</u>	<u>Filing date</u>	<u>Title</u>	<u>Assignee</u>	<u>Family</u>
<u>6028967</u>	<u>1998-01-22</u>	<u>Method of reducing a blocking artifact when coding moving picture</u>	<u>LG Electronics Inc.</u>	<u>DE19734881</u> <u>JP2920209</u> <u>KR0281099</u> <u>US7233706</u> <u>US7239755</u> <u>US7262886</u> <u>US7277593</u> <u>US7283681</u> <u>US7283682</u> <u>US7289682</u> <u>US7305142</u> <u>US7305143</u>
<u>6240135</u>	<u>1998-04-24</u>	<u>Method of removing blocking artifacts in a coding system of a moving picture</u>	<u>LG Electronics Inc.</u>	<u>DE19829468</u> <u>GB2329090</u> <u>JP3464908</u> <u>KR0244290</u>
<u>6487318</u>	<u>1998-12-31</u>	<u>Method of relocating wavelet packet coefficient</u>	<u>LG Electronics Inc.</u>	<u>DE19903605</u> <u>JP3208436</u> <u>KR0284027</u>
<u>5323316</u>	<u>1991-02-01</u>	<u>Morphological analyzer</u>	<u>LG Electronics Inc.</u>	

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

07/31/2008  
 500608063

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LG Electronics, Inc.	06/12/2008
RECEIVING PARTY DATA	
Name:	ANPA Inc.
Street Address:	5th Floor, Bosung Bldg.
Internal Address:	Daechi-dong 1005-8, Gangnam-gu
City:	Seoul
State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
Postal Code:	135-280
PROPERTY NUMBERS Total: 13	
Property Type	Number
Patent Number:	6028967
Patent Number:	6240135
Patent Number:	6487318
Patent Number:	5323316
Patent Number:	7233706
Patent Number:	7239755
Patent Number:	7262886
Patent Number:	7277593
Patent Number:	7283681
Patent Number:	7283682
Patent Number:	7289682
Patent Number:	7305142
Patent Number:	7305143

CH \$520.00 6028967



Fax Number: (267)880-1721

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 267-880-1720

Email: phespell@techpats.com

Correspondent Name: TECHNOLOGY, PATENTS & LICENSING, INC.

Address Line 1: 2003 S. Easton Road

Address Line 2: Suite 208

Address Line 4: Doylestown, PENNSYLVANIA 18901

ATTORNEY DOCKET NUMBER:

LG-ANPA ASSIGN

NAME OF SUBMITTER:

Patti Hespell

Total Attachments: 2

source=LG\_ANPA\_ASSIGN#page1.tif

source=LG\_ANPA\_ASSIGN#page2.tif

TO: DANIEL H. SHERR COMPANY: 620 HERNDON PARKWAY



**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



\*501003600A\*

NOVEMBER 02, 2009

PTAS

DANIEL H. SHERR  
620 HERNDON PARKWAY  
SUITE 320  
HERNDON, VA 20170

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RECORDATION DATE: 11/02/2009

REEL/FRAME: 023454/0582

NUMBER OF PAGES: 9

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 291-0000

ASSIGNOR:

ANPA INC.

DOC DATE: 08/12/2009

ASSIGNEE:

ACACIA PATENT ACQUISITIONS LLC  
500 NEWPORT CENTER DRIVE  
7TH FLOOR  
NEWPORT BEACH, CALIFORNIA 92660

SERIAL NUMBER: 09010446

FILING DATE: 01/22/1998

PATENT NUMBER: 6028967

ISSUE DATE: 02/22/2000

TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 09506728

FILING DATE: 02/18/2000

PATENT NUMBER: 7239755

ISSUE DATE: 07/03/2007

TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY

023454/0582 PAGE 2

SERIAL NUMBER: 11619893 FILING DATE: 01/04/2007  
PATENT NUMBER: 7305142 ISSUE DATE: 12/04/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11619913 FILING DATE: 01/04/2007  
PATENT NUMBER: 7277593 ISSUE DATE: 10/02/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11619926 FILING DATE: 01/04/2007  
PATENT NUMBER: 7233706 ISSUE DATE: 06/19/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11619938 FILING DATE: 01/04/2007  
PATENT NUMBER: 7262886 ISSUE DATE: 08/28/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11626561 FILING DATE: 01/24/2007  
PATENT NUMBER: 7283681 ISSUE DATE: 10/16/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11626570 FILING DATE: 01/24/2007  
PATENT NUMBER: 7305143 ISSUE DATE: 12/04/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11626583 FILING DATE: 01/24/2007  
PATENT NUMBER: 7283682 ISSUE DATE: 10/16/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11673260 FILING DATE: 02/09/2007  
PATENT NUMBER: 7289682 ISSUE DATE: 10/30/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11770260 FILING DATE: 06/28/2007  
PATENT NUMBER: 7391921 ISSUE DATE: 06/24/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11770324 FILING DATE: 06/28/2007  
PATENT NUMBER: 7359569 ISSUE DATE: 04/15/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11835174 FILING DATE: 08/07/2007  
PATENT NUMBER: 7394945 ISSUE DATE: 07/01/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11835195 FILING DATE: 08/07/2007  
PATENT NUMBER: 7362913 ISSUE DATE: 04/22/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11835209 FILING DATE: 08/07/2007  
PATENT NUMBER: 7362914 ISSUE DATE: 04/22/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY

023454/0582 PAGE 3

SERIAL NUMBER: 11835230 FILING DATE: 08/07/2007  
PATENT NUMBER: 7391922 ISSUE DATE: 06/24/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11835243 FILING DATE: 08/07/2007  
PATENT NUMBER: 7359570 ISSUE DATE: 04/15/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11846629 FILING DATE: 08/29/2007  
PATENT NUMBER: 7437015 ISSUE DATE: 10/14/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11846685 FILING DATE: 08/29/2007  
PATENT NUMBER: 7403667 ISSUE DATE: 07/22/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11874976 FILING DATE: 10/19/2007  
PATENT NUMBER: 7379616 ISSUE DATE: 05/27/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11874979 FILING DATE: 10/19/2007  
PATENT NUMBER: 7391923 ISSUE DATE: 06/24/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11874983 FILING DATE: 10/19/2007  
PATENT NUMBER: 7406209 ISSUE DATE: 07/29/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11874993 FILING DATE: 10/19/2007  
PATENT NUMBER: 7391924 ISSUE DATE: 06/24/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11875020 FILING DATE: 10/19/2007  
PATENT NUMBER: 7379617 ISSUE DATE: 05/27/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11875046 FILING DATE: 10/19/2007  
PATENT NUMBER: 7382930 ISSUE DATE: 06/03/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11875056 FILING DATE: 10/19/2007  
PATENT NUMBER: 7400780 ISSUE DATE: 07/15/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11875068 FILING DATE: 10/19/2007  
PATENT NUMBER: 7397965 ISSUE DATE: 07/08/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11875082 FILING DATE: 10/19/2007  
PATENT NUMBER: 7397966 ISSUE DATE: 07/08/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY

023454/0582 PAGE 4

SERIAL NUMBER: 11875093 FILING DATE: 10/19/2007  
PATENT NUMBER: 7397967 ISSUE DATE: 07/08/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105305 FILING DATE: 04/18/2008  
PATENT NUMBER: 7616831 ISSUE DATE: 11/10/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105307 FILING DATE: 04/18/2008  
PATENT NUMBER: 7616832 ISSUE DATE: 11/10/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105312 FILING DATE: 04/18/2008  
PATENT NUMBER: 7620262 ISSUE DATE: 11/17/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105315 FILING DATE: 04/18/2008  
PATENT NUMBER: 7616833 ISSUE DATE: 11/10/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105317 FILING DATE: 04/18/2008  
PATENT NUMBER: 7496239 ISSUE DATE: 02/24/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105322 FILING DATE: 04/18/2008  
PATENT NUMBER: 7492959 ISSUE DATE: 02/17/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105324 FILING DATE: 04/18/2008  
PATENT NUMBER: 7599571 ISSUE DATE: 10/06/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105332 FILING DATE: 04/18/2008  
PATENT NUMBER: 7463786 ISSUE DATE: 12/09/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105342 FILING DATE: 04/18/2008  
PATENT NUMBER: 7454082 ISSUE DATE: 11/18/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105347 FILING DATE: 04/18/2008  
PATENT NUMBER: 7492960 ISSUE DATE: 02/17/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105362 FILING DATE: 04/18/2008  
PATENT NUMBER: 7492961 ISSUE DATE: 02/17/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105370 FILING DATE: 04/18/2008  
PATENT NUMBER: 7499598 ISSUE DATE: 03/03/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY

023454/0582 PAGE 5

SERIAL NUMBER: 09065577 FILING DATE: 04/24/1998  
PATENT NUMBER: 6240135 ISSUE DATE: 05/29/2001  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 11834312 FILING DATE: 08/06/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 11834347 FILING DATE: 08/06/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 11851517 FILING DATE: 09/07/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 11851529 FILING DATE: 09/07/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 11851551 FILING DATE: 09/07/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 09224901 FILING DATE: 12/31/1998  
PATENT NUMBER: 6487318 ISSUE DATE: 11/26/2002  
TITLE: METHOD OF RELOCATING WAVELET PACKET COEFFICIENT

SERIAL NUMBER: 12573531 FILING DATE: 10/05/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

KIMBERLY WHITE, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

11/02/2009

501003600

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ANPA Inc.	08/12/2009
RECEIVING PARTY DATA	
Name:	Acacia Patent Acquisitions LLC
Street Address:	500 Newport Center Drive
Internal Address:	7th Floor
City:	Newport Beach
State/Country:	CALIFORNIA
Postal Code:	92660
PROPERTY NUMBERS Total: 49	
Property Type	Number
Application Number:	09010446
Application Number:	09506728
Application Number:	11619893
Application Number:	11619913
Application Number:	11619926
Application Number:	11619938
Application Number:	11626561
Application Number:	11626570
Application Number:	11626583
Application Number:	11673260
Application Number:	11770260
Application Number:	11770324
Application Number:	11835174
Application Number:	11835195

OP \$1960.00 09010446

TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY

Application Number:	11835209
Application Number:	11835230
Application Number:	11835243
Application Number:	11846629
Application Number:	11846685
Application Number:	11874976
Application Number:	11874979
Application Number:	11874983
Application Number:	11874993
Application Number:	11875020
Application Number:	11875046
Application Number:	11875056
Application Number:	11875068
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Application Number:	12105305
Application Number:	12105307
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Application Number:	12105362
Application Number:	12105370
Application Number:	09065577
Application Number:	11834312
Application Number:	11834347
Application Number:	11851517
Application Number:	11851529
Application Number:	11851551
Application Number:	09224901
Application Number:	12573531



TO: DANIEL H. SHERR COMPANY: 620 HERNDON PARKWAY

## CORRESPONDENCE DATA

Fax Number: (703)935-8473

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 571-313-7558

Email: mail@sherr-law.com

Correspondent Name: Daniel H. Sherr

Address Line 1: 620 Herndon Parkway

Address Line 2: Suite 320

Address Line 4: Herndon, VIRGINIA 20170

ATTORNEY DOCKET NUMBER:

291-0000

NAME OF SUBMITTER:

Daniel H. Sherr

## Total Attachments: 6

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TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY



## UNITED STATES PATENT AND TRADEMARK OFFICE

### Facsimile Transmission

To:                      Name:                      DANIEL H. SHERR  
                                 Company:                      620 HERNDON PARKWAY  
                                 Fax Number:                      17039358473  
                                 Voice Phone:

From:                      Name:                      ASSIGNMENT SERVICES BRANCH  
                                 Voice Phone:                      571-272-3350

37 C.F.R. 1.6 sets forth the types of correspondence that can be communicated to the Patent and Trademark Office via facsimile transmissions. Applicants are advised to use the certificate of facsimile transmission procedures when submitting a reply to a non-final or final Office action by facsimile (37 CFR 1.8(a)).

#### Fax Notes:

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Pg#	Description
1	Cover Page
2	783.TXT
7	Document 1, Batch 1834843

USPTO ASSIGNMENT SYSTEM PROCESSING

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Date and time of transmission: Monday, November 02, 2009 1:00:06 PM  
Number of pages including this cover sheet: 09

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## ASSIGNMENT

WHEREAS, ANPA INC. a corporation of the Republic of Korea having a principal place of business at 5<sup>th</sup> Fl., Bosung Bldg., Daeche-dong 1005-8, Gangnam-gu, Seoul, 135-280, Korea (hereafter, together with any successors, legal representatives or assigns thereof, called "Assignor") is the owner of the entire right, title, and interest and assignee of the U.S. Patents listed in Exhibit A attached hereto;

AND WHEREAS, ACACIA PATENT ACQUISITION LLC, a Delaware limited liability company having a place of business at 500 Newport Center Drive, 7<sup>th</sup> Floor, Newport Beach, CA 92660 USA (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said U.S. Patents listed in Exhibit A attached hereto and all the inventions therein, and Assignor is willing to enter into such assignment.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from ASSIGNEE is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to U.S. Patents listed in Exhibit A attached hereto and all continuations, divisions, reexaminations, reissues and substitutes thereof, all inventions therein, including without limitation all rights to claim priority on the basis thereof, and any and all applications for patents which are or may hereafter be filed for this invention in any foreign country and all patents which may be granted on these inventions in any foreign country, and all extensions, renewals, and reissues thereof; and including without limitation, all rights to sue for past, present and future infringement, including the right to collect and receive any damages, royalties, or settlements for such infringements, all rights to sue for injunctive or other equitable relief, and any and all causes of action relating to any of the inventions or discoveries thereof;

Assignor hereby covenants that it has full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict with this Assignment;

Assignor hereby further covenants and agrees that it will communicate to ASSIGNEE any and all facts known to it respecting said patents, and testify in any legal proceeding, sign all lawful papers, execute and deliver all papers and take any actions that may be necessary or desirable to perfect the title to any aforementioned patents and inventions, execute all divisional, continuation, reexamination, reissue and substitute applications, and make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said inventions in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand this 12 day of August, 2009.

ANPA INC.  
(Assignor).

By: [Signature]  
Print Name: Sora Noh  
Title: CEO

ANPA INC. Signature Certified or Witnessed by:  
BAE, KIM & LEE LLC

By: [Signature]  
Print Name: Emi-ZN HWANG  
Title: Partner  
Date: August 12, 2009

**EXHIBIT A**  
**THE PATENTS**

Patent Application Number	Patent Number	TITLE
US09010446	US6028967	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US09506728	US7239755	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619893	US7305142	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619913	US7277593	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619926	US7233706	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619938	US7262886	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11626561	US7283681	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11626570	US7305143	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11626583	US7283682	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11673260	US7289682	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11770260	US7391921	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

581

Patent Application Number	Patent Number	TITLE
US11770260		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11770324	US7359569	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835174	US7394945	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835195	US7362913	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835209	US7362914	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835230	US7391922	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835243	US7359570	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11846629	US7437015	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11846685	US7403667	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874976	US7379616	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874979	US7391923	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874983	US7406209	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874993	US7391924	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

JN

Patent Application Number	Patent Number	TITLE
US11875020	US7379617	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875046	US7382930	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875056	US7400780	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875068	US7397965	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875082	US7397966	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875093	US7397967	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105305		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105307		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105312		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105315		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105317	US7496239	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105322	US7492959	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105324		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SH

Patent Application Number	Patent Number	TITLE
US12105332	US7463786	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105342	US7454082	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105347	US7492960	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105362	US7492961	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105370	US7499598	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US09065577	US6240135	METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11834312		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11834347		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11851517		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11851529		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11851551		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US09224901	US6487318	METHOD OF RELOCATING WAVELET PACKET COEFFICIENT



TO: DANIEL H. SHERR COMPANY: 620 HERNDON PARKWAY



**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



\*501011070\*

NOVEMBER 10, 2009

PTAS

DANIEL H. SHERR  
620 HERNDON PARKWAY  
SUITE 320  
HERNDON, VA 20170

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/10/2009

REEL/FRAME: 023494/0900  
NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 291-0000

ASSIGNOR:

ACACIA PATENT ACQUISITION LLC

DOC DATE: 10/27/2009

ASSIGNEE:

VIDEO ENHANCEMENT SOLUTIONS LLC  
6136 FRISCO SQUARE BLVD.  
SUITE 400  
FRISCO, TEXAS 75034

SERIAL NUMBER: 09010446

FILING DATE: 01/22/1998

PATENT NUMBER: 6028967

ISSUE DATE: 02/22/2000

TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 09506728

FILING DATE: 02/18/2000

PATENT NUMBER: 7239755

ISSUE DATE: 07/03/2007

TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

023494/0900 PAGE 2

SERIAL NUMBER: 11619893 FILING DATE: 01/04/2007  
PATENT NUMBER: 7305142 ISSUE DATE: 12/04/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11619913 FILING DATE: 01/04/2007  
PATENT NUMBER: 7277593 ISSUE DATE: 10/02/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11619926 FILING DATE: 01/04/2007  
PATENT NUMBER: 7233706 ISSUE DATE: 06/19/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11619938 FILING DATE: 01/04/2007  
PATENT NUMBER: 7262886 ISSUE DATE: 08/28/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11626561 FILING DATE: 01/24/2007  
PATENT NUMBER: 7283681 ISSUE DATE: 10/16/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11626570 FILING DATE: 01/24/2007  
PATENT NUMBER: 7305143 ISSUE DATE: 12/04/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11626583 FILING DATE: 01/24/2007  
PATENT NUMBER: 7283682 ISSUE DATE: 10/16/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11673260 FILING DATE: 02/09/2007  
PATENT NUMBER: 7289682 ISSUE DATE: 10/30/2007  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11770260 FILING DATE: 06/28/2007  
PATENT NUMBER: 7391921 ISSUE DATE: 06/24/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11770324 FILING DATE: 06/28/2007  
PATENT NUMBER: 7359569 ISSUE DATE: 04/15/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11835174 FILING DATE: 08/07/2007  
PATENT NUMBER: 7394945 ISSUE DATE: 07/01/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11835195 FILING DATE: 08/07/2007  
PATENT NUMBER: 7362913 ISSUE DATE: 04/22/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11835209 FILING DATE: 08/07/2007  
PATENT NUMBER: 7362914 ISSUE DATE: 04/22/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY

023494/0900 PAGE 3

SERIAL NUMBER: 11835230 FILING DATE: 08/07/2007  
PATENT NUMBER: 7391922 ISSUE DATE: 06/24/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11835243 FILING DATE: 08/07/2007  
PATENT NUMBER: 7359570 ISSUE DATE: 04/15/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11846629 FILING DATE: 08/29/2007  
PATENT NUMBER: 7437015 ISSUE DATE: 10/14/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11846685 FILING DATE: 08/29/2007  
PATENT NUMBER: 7403667 ISSUE DATE: 07/22/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11874976 FILING DATE: 10/19/2007  
PATENT NUMBER: 7379616 ISSUE DATE: 05/27/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11874979 FILING DATE: 10/19/2007  
PATENT NUMBER: 7391923 ISSUE DATE: 06/24/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11874983 FILING DATE: 10/19/2007  
PATENT NUMBER: 7406209 ISSUE DATE: 07/29/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11874993 FILING DATE: 10/19/2007  
PATENT NUMBER: 7391924 ISSUE DATE: 06/24/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11875020 FILING DATE: 10/19/2007  
PATENT NUMBER: 7379617 ISSUE DATE: 05/27/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11875046 FILING DATE: 10/19/2007  
PATENT NUMBER: 7382930 ISSUE DATE: 06/03/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11875056 FILING DATE: 10/19/2007  
PATENT NUMBER: 7400780 ISSUE DATE: 07/15/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11875068 FILING DATE: 10/19/2007  
PATENT NUMBER: 7397965 ISSUE DATE: 07/08/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 11875082 FILING DATE: 10/19/2007  
PATENT NUMBER: 7397966 ISSUE DATE: 07/08/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY

023494/0900 PAGE 4

SERIAL NUMBER: 11875093 FILING DATE: 10/19/2007  
PATENT NUMBER: 7397967 ISSUE DATE: 07/08/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105305 FILING DATE: 04/18/2008  
PATENT NUMBER: 7616831 ISSUE DATE: 11/10/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105307 FILING DATE: 04/18/2008  
PATENT NUMBER: 7616832 ISSUE DATE: 11/10/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105312 FILING DATE: 04/18/2008  
PATENT NUMBER: 7620262 ISSUE DATE: 11/17/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105315 FILING DATE: 04/18/2008  
PATENT NUMBER: 7616833 ISSUE DATE: 11/10/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105317 FILING DATE: 04/18/2008  
PATENT NUMBER: 7496239 ISSUE DATE: 02/24/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105322 FILING DATE: 04/18/2008  
PATENT NUMBER: 7492959 ISSUE DATE: 02/17/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105324 FILING DATE: 04/18/2008  
PATENT NUMBER: 7599571 ISSUE DATE: 10/06/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105332 FILING DATE: 04/18/2008  
PATENT NUMBER: 7463786 ISSUE DATE: 12/09/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105342 FILING DATE: 04/18/2008  
PATENT NUMBER: 7454082 ISSUE DATE: 11/18/2008  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105347 FILING DATE: 04/18/2008  
PATENT NUMBER: 7492960 ISSUE DATE: 02/17/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105362 FILING DATE: 04/18/2008  
PATENT NUMBER: 7492961 ISSUE DATE: 02/17/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

SERIAL NUMBER: 12105370 FILING DATE: 04/18/2008  
PATENT NUMBER: 7499598 ISSUE DATE: 03/03/2009  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

023494/0900 PAGE 5

SERIAL NUMBER: 09065577 FILING DATE: 04/24/1998  
PATENT NUMBER: 6240135 ISSUE DATE: 05/29/2001  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 11834312 FILING DATE: 08/06/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 11834347 FILING DATE: 08/06/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 11851517 FILING DATE: 09/07/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 11851529 FILING DATE: 09/07/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 11851551 FILING DATE: 09/07/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A  
MOVING PICTURE

SERIAL NUMBER: 09224901 FILING DATE: 12/31/1998  
PATENT NUMBER: 6487318 ISSUE DATE: 11/26/2002  
TITLE: METHOD OF RELOCATING WAVELET PACKET COEFFICIENT

SERIAL NUMBER: 12573531 FILING DATE: 10/05/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

MARY BENTON, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY

## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.111/10/2009  
501011070

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Acacia Patent Acquisition LLC	10/27/2009
RECEIVING PARTY DATA	
Name:	Video Enhancement Solutions LLC
Street Address:	6136 Frisco Square Blvd.
Internal Address:	Suite 400
City:	Frisco
State/Country:	TEXAS
Postal Code:	75034
PROPERTY NUMBERS Total: 49	
Property Type	Number
Application Number:	09010446
Application Number:	09506728
Application Number:	11619893
Application Number:	11619913
Application Number:	11619926
Application Number:	11619938
Application Number:	11626561
Application Number:	11626570
Application Number:	11626583
Application Number:	11673260
Application Number:	11770260
Application Number:	11770324
Application Number:	11835174
Application Number:	11835195

OP \$1960.00 09010446

TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY

Application Number:	11835209
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Application Number:	12105362
Application Number:	12105370
Application Number:	09065577
Application Number:	11834312
Application Number:	11834347
Application Number:	11851517
Application Number:	11851529
Application Number:	11851551
Application Number:	09224901
Application Number:	12573531

TO:DANIEL H. SHERR COMPANY:620 HERNDON PARKWAY

## CORRESPONDENCE DATA

Fax Number: (703)935-8473

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 571-313-7556

Email: mail@sherr-law.com

Correspondent Name: Daniel H. Sherr

Address Line 1: 620 Herndon Parkway

Address Line 2: Suite 320

Address Line 4: Herndon, VIRGINIA 20170

ATTORNEY DOCKET NUMBER:

291-0000

NAME OF SUBMITTER:

Daniel H. Sherr

## Total Attachments: 7

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## ASSIGNMENT

**WHEREAS, ACACIA PATENT ACQUISITION LLC**, a Delaware limited liability company having a place of business at 500 Newport Center Drive, 7<sup>th</sup> Floor, Newport Beach, CA 92660 USA (hereafter, together with any successors, legal representatives or assigns thereof, called "Assignor") is the owner of the entire right, title, and interest and assignee of the **U.S. Patents listed in Exhibit A attached hereto;**

**AND WHEREAS, VIDEO ENHANCEMENT SOLUTIONS LLC**, a Texas limited liability company having a place of business at 6136 Frisco Square Blvd., Suite 400, Frisco, TX 75034 USA (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said **U.S. Patents listed in Exhibit A attached hereto** and all the inventions therein, and Assignor is willing to enter into such assignment.

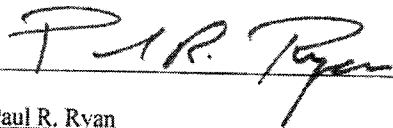
**NOW, THEREFORE**, in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from ASSIGNEE is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to **U.S. Patents listed in Exhibit A attached hereto** and all continuations, divisions, reexaminations, reissues and substitutes thereof, all inventions therein, including without limitation all rights to claim priority on the basis thereof, and any and all applications for patents which are or may hereafter be filed for this invention in any foreign country and all patents which may be granted on these inventions in any foreign country, and all extensions, renewals, and reissues thereof; and including without limitation, all rights to sue for past, present and future infringement, including the right to collect and receive any damages, royalties, or settlements for such infringements, all rights to sue for injunctive or other equitable relief, and any and all causes of action relating to any of the inventions or discoveries thereof;

**Assignor** hereby covenants that it has full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict with this Assignment;

**Assignor** hereby further covenants and agrees that it will communicate to ASSIGNEE any and all facts known to it respecting said patents, and testify in any legal proceeding, sign all lawful papers, execute and deliver all papers and take any actions that may be necessary or desirable to perfect the title to any aforementioned patents and inventions, execute all divisional, continuation, reexamination, reissue and substitute applications, and make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said inventions in all countries.

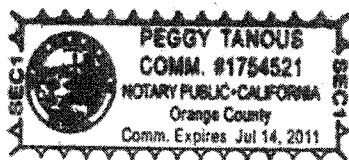
IN TESTIMONY WHEREOF, I hereunto set my hand this 27th day of October, 2009

ACACIA PATENT ACQUISITION LLC  
(Assignor)

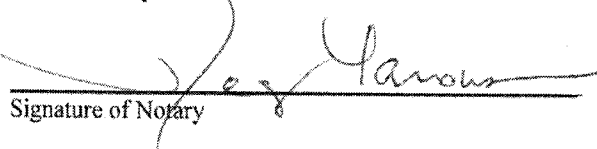
By   
Name Paul R. Ryan  
Title Chairman & CEO

STATE OF CA  
COUNTY OF Orange

On Oct. 27, 2009, before me Peggy Tanous, Notary Public, personally appeared Paul R. Ryan personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

  
Signature of Notary

**EXHIBIT A**

**THE PATENTS**

<b>Patent Application Number</b>	<b>Patent Number</b>	<b>TITLE</b>
US09010446	US6028967	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US09506728	US7239755	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619893	US7305142	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619913	US7277593	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619926	US7233706	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11619938	US7262886	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11626561	US7283681	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11626570	US7305143	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11626583	US7283682	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11673260	US7289682	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11770260	US7391921	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

<b>Patent Application Number</b>	<b>Patent Number</b>	<b>TITLE</b>
US11770324	US7359569	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835174	US7394945	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835195	US7362913	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835209	US7362914	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835230	US7391922	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11835243	US7359570	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11846629	US7437015	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11846685	US7403667	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874976	US7379616	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874979	US7391923	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874983	US7406209	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11874993	US7391924	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

Patent Application Number	Patent Number	TITLE
US11875020	US7379617	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875046	US7382930	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875056	US7400780	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875068	US7397965	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875082	US7397966	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US11875093	US7397967	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105305		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105307		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105312		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105315		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105317	US7496239	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105322	US7492959	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE

Patent Application Number	Patent Number	TITLE
US12105324		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105332	US7463786	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105342	US7454082	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105347		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105362	US7492961	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US12105370	US7499598	METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE
US09065577	US6240135	METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11834312		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11834347		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11851517		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11851529		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE
US11851551		METHOD OF REMOVING BLOCKING ARTIFACTS IN A CODING SYSTEM OF A MOVING PICTURE

Patent Application Number	Patent Number	TITLE
US09224901	US6487318	METHOD OF RELOCATING WAVELET PACKET COEFFICIENT
US12573531		METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING PICTURE